

Abstract

The invention is a provider agent product and method that operates as a software interface between a telephony card and a session manager in an advanced communications network. The provider agent receives event messages from the telephony card indicating on-hook events, off-hook events, and digit events. The provider agent instructs the telephony card to provide dial tone, ring current, ringback, and busy signals to the telephones. The provider agent also exchanges messages with a session manager in the network. These messages include: invite messages, reply messages, join messages, and terminate messages. In response to the above processing, the provider agent instructs the telephony card to interwork telephony signals on a telephony channel with ATM signals on an ATM virtual channel. The provider agent is comprised of a plurality of software objects that are stored on a software storage medium and that include: a controller object, port objects, and event objects. The provider agent objects are executed by a multithreaded processing system and each object has a separate processing thread. The provider agent and the telephony card communicate through an application programming interface that is specified in an Interface Definition Language (IDL) of a Common Object Request Broker Architecture (CORBA).